

What is claimed is:

- 1 1. A method for generating audio sounds on a radio frequency
2 audio sound generator from a remote audio signal source, the method comprising the
3 steps of:
4 providing a housing;
5 supplying an audio signal storage media in the housing;
6 generating audio signals from the audio signal storage media;
7 generating a first frequency radio frequency carrier signal from an
8 oscillator;
9 modulating the audio signals on the first frequency radio frequency
10 carrier signal; and
11 transmitting the first frequency radio frequency carrier signal with the
12 modulated audio signals to a radio frequency audio signal demodulator in a remote
13 radio frequency receiver for broadcast of the audio signals.
- 1 2. The method of claim 1 further comprising the steps of:
2 providing an audio generator for generating the audio signals and an
3 audio transmitter for transmitting the carrier signal and the modulated audio signal in
4 separate housings.
- 1 3. The method of claim 2 further comprising the step of:
2 coupling the audio signal generator and the audio transmitter in signal
3 communication.
- 1 4. The method of claim 3 wherein the step of coupling further
2 comprises the steps of:
3 providing conductors; and
4 providing a connector coupled to one end of the conductors, the
5 connector connectable to one of the housings.

1 5. The method of claim 1 further comprising:
2 the frequency radio frequency carrier signal is within the FM radio frequency band.

1 6. The method of claim 1 wherein the step of generating a first
2 frequency radio frequency carrier signal further comprises the step of:
3 selecting one of a plurality of radio frequency carrier signals as the first
4 frequency carrier signal.

1 7. The method of claim 1 further comprising the steps of:
2 providing a cable carrying first and second stereo channel signal
3 conductors and a signal ground conductor, the first and second conductors connected
4 at one end to a stereo encoder and at the other end to a connector; and
5 electrically connecting the connector to an audio output connector on
6 the audio signal generator.

1 8. The method of claim 7 further comprising the steps of:
2 providing an antenna conductor in the cable; and
3 connecting the antenna conductor to the transmitter in the housing.

1 9. The method of claim 7 further comprising the step of:
2 providing a recess externally in the housing, the recess adapted for
3 removably receiving the connector when the connector is not connected to the audio
4 signal generator.

1 10. The method of claim 9 further comprising the step of:
2 forming the cable in a hand carrying loop when the connector is
3 mounted in the recess on the housing.

1 11. The method of claim 8 further comprising the step of:
2 terminating the opposite end of the antenna conductor in the cable
3 disconnected from the connector.

12. The method of claim 8 further comprising steps of:
providing a plurality of band pass filters in the housing connected
between the first and second stereo channel conductors and the signal ground
conductor in the cable and the stereo encoder in the housing.

13. An apparatus for generating sounds on a radio frequency audio
generator from a remote audio signal storage media according to the method of claim
1 comprising:

a housing;
an audio signal generator in the housing for generating audio signals
from the audio signal storage media;
conductors communicating the audio signals from the remote audio
signal storage media to the housing;
an oscillator generating a first frequency radio frequency carrier signal;
a modulator coupled to the oscillator for modulating the audio signals
with the first frequency radio frequency carrier signal; and
a transmitter coupled to the modulator for transmitting the first
frequency radio frequency carrier signal with the modulated audio signals to a radio
frequency demodulator in a remote radio frequency receiver for broadcast of the
audio signals.

14. The apparatus of claim 13 further comprising:
a multi-conductor cable extending from the housing and carrying the
conductors; and
the conductors including first and second conductors for first and
second stereo channel audio signals, a signal ground conductor and the antenna
conductor.

15. The apparatus of claim 14 further comprising;

2 a plurality of band pass filters carried in the housing, one band pass
3 filter coupled to each of the first and second conductors and to the signal ground
4 conductor.

1 16. The apparatus of claim 14 wherein the connector further
2 comprising:
3 a connector coupled to the free end of the cable, the connector adapted
4 for coupling the first and second conductors and the signal ground conductor to an
5 audio player.

1 17. The apparatus of claim 14 further comprising:
2 a recess formed externally in the housing for removable receiving the
3 jack.

1 18. A wireless audio transmitter apparatus coupling an audio
2 player having an audio signal output to an audio receiver capable of outputting audio
3 signals at a first frequency, the apparatus comprising:
4 a portable housing;
5 a connector coupled to the housing and adapted for coupling the audio
6 output signal from an audio player to a radio frequency oscillator carried in the
7 housing, the radio frequency oscillator generating a radio frequency carrier;
8 a radio frequency modulator carried in the housing for modulating the
9 audio signal output of the audio player on the radio frequency carrier; and
10 an antenna carried on the housing and coupled to the modulator for
11 wirelessly transmitting the modulated signal to a remote audio receiver.

1 19. The apparatus of claim 18 further comprising:
2 a radio frequency selector, coupled to the oscillator, for selecting one of
3 a plurality of different radio frequency carrier signals.

1 20. The apparatus of claim 19 further comprising:

2 the frequency selector switch carried externally on the housing.

1 21. The apparatus of claim 20 wherein the connector comprises:
2 a multi-conductor cable extending from the housing and carrying first
3 and second conductors for first and second stereo channel audio signals, a third
4 conductor for a signal ground, and a fourth conductor for the antenna.

1 22. The apparatus of claim 21 further comprising;
2 a plurality of band pass filters carried in the housing, one band pass
3 filter coupled to each of the first, second and third conductors.

1 23. The apparatus of claim 21 wherein the connector further
2 comprising:
3 a jack coupled to the free end of the cable, the jack adapted for
4 coupling the first, second and third stereo channel conductors to an audio player.

1 24. The apparatus of claim 23 further comprising:
2 a recess formed externally in the housing for removable receiving the
3 jack.

1 25. The apparatus of claim 24 wherein:
2 the cable forms a hand carrying loop when the jack is mounted in the
3 recess on the housing.

1 26. A method for generating audio sounds on a radio frequency
2 audio sound generator from a remote audio signal source, the method comprising the
3 steps of:
4 providing a first housing;
5 supplying an audio signal storage media in the first housing;
6 generating audio signals from the audio signal storage media in the first
7 housing;

8 providing a second housing;
9 generating a first frequency radio frequency carrier signal from an
10 oscillator carried in the second housing;
11 connecting the first housing to the second housing in electrical signal
12 communication;
13 modulating the audio signals onto the first frequency radio frequency
14 carrier signal; and
15 transmitting the first frequency radio frequency carrier signal with the
16 modulated audio signals to a radio frequency audio signal demodulator in a remote
17 radio frequency receiver for broadcast of the audio signals.